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APPLICATION	10.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.		
10/005,846		12:03/2001	Khuy V. Nguyen	2000.83	1022	
29494	7590	06/24/2003				
ROBER	ROBERT H. HAMMER III, P.C.					
3121 SPR	INGBANI	K LANE	EXAMINE		NER	
SUITE				CHANG, V	ANG, VICTOR S	
CHARLO	OTTE, NC	28226				
				ART UNIT	PAPER NUMBER	
				1771		
				DATE MAILED OCCITIONS		

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	Appli	cation No.	Applicant(s)
	Office Action Summers	10/00)5,846	NGUYEN ET AL.
	Office Action Summary	Exam	iner	Art Unit
	The Administration of the Control of	Victor	S Chang	1771
Period fo	The MAILING DATE of this comm or Reply	nunication appears or	the cover sheet w	vith the correspondence address
- Exter after - If the - If NO - Failur - Any re	ORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMU sions of time may be available under the provisi SIX (6) MONTHS from the mailing date of this coperiod for reply specified above is less than thirt period for reply is specified above, the maximum re to reply within the set or extended period for reply received by the Office later than three month diparter term adjustment. See 37 CFR 1.704(b)	ions of 37 CFR 1.136(a). In nommunication. y (30) days, a reply within the notatutory period will apply are apply will, by statute, cause the	o event, however, may a statutory minimum of thin nd will expire SIX (6) MON	reply be timely filed 1y (30) days will be considered timely. NTHS from the mailing date of this communication
1)	Responsive to communication(s)	A filed on		
2a)	This action is FINAL .			
3)		2b)⊠ This action	is non-final.	
	closed in accordance with the praction of Claims	actice under <i>Ex parte</i>	cept for formal ma Quayle, 1935 C.I	tters, prosecution as to the merits is D. 11, 453 O.G. 213.
4)🛛 (Claim(s) 1-11 is/are pending in the	e application.		
	a) Of the above claim(s) is		Consideration	
5) 🗌 (Claim(s) is/are allowed.		consideration.	
	Claim(s) <u>1-11</u> is/are rejected.			
	Claim(s) is/are objected to.			
	Claim(s) are subject to restr	iction and/or election	requirement	
Applicatio	n Papers	The state of the s	rrequirement.	
9)[] Ti	ne specification is objected to by the	he Examiner.		
10)[] Th	ne drawing(s) filed on is/are	a)☐ accepted or b)	objected to by th	le Examiner
	Applicant may not request that any of	bjection to the drawing	s) he held in abova	nce Soc 27 CED 4 05(-)
11/	ie proposed drawing correction file	ed on is: a)[☐	approved b) dis	Sapproved by the Examiner
	ir approved, corrected drawings are re	equired in reply to this (Office action.	The state of the Examiner.
12)∐ Th	e oath or declaration is objected to	o by the Examiner.		
	der 35 U.S.C. §§ 119 and 120			
13) 🗌 A	cknowledgment is made of a claim	n for foreign priority u	ınder 35 U.S.C. &	119(a)-(d) or (f)
a) <u></u> □	All b) Some * c) None of:	•	3	(4) (4) (7).
1.	Certified copies of the priority	documents have be	en received.	
2.	Certified copies of the priority	documents have be	en received in An	plication No.
	Copies of the certified copies application from the Intern	of the priority docum	ents have been re	eceived in this National Stage
عود مامد (14	the attached detailed Office actio	on for a list of the cert	lified copies not re	eceived.
ACK	The translation of a claim for	or domestic priority u	ınder 35 U.S.C. §	119(e) (to a provisional application
15) Ack	The translation of the foreign lar nowledgment is made of a claim f	TOURGE provisional a	oplication has be-	
raciillein(s)		•	-·-· 3	121.
Notice of	References Cited (PTO-892) Draftsperson's Patent Drawing Review (P on Disclosure Statement(s) (PTO-1449) Pa	TO-948) aper No(s) <u><i>0528</i></u> .	4) Interview Su 5) Notice of Info 6) Other:	mmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)
atent and Tradem	nark Office 4-01)	Office Action Summa		

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112: 1. The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being 2. indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 3, the Examiner suggests delete "less than 10 percent by blend weight" at line 3, and add --, with the elastomer comprising less than 10 percent by blend weight-- after "thereof" at line 6.

For claims 4, 5 and 8, line 2 of each claim, the term "Gurley" is vague and indefinite, the Examiner suggests add --air permeability-- after "Gurley". Additionally, for claims 4 and 5, the absence of the volume renders the claims vague and indefinite. For the purpose of this Office action, it is presumed to be 10 cc.

In claim 8, line 1, the phrase "improving a membrane" is vague and indefinite, i.e., it would not be clear to one of ordinary skill in the art as to what property is being improved. Clarification is requested.

In claim 8, line 8, please change "and the elastomer" to --with the elastomer--. In claim 9, line 2, change "blend" to --elastomer--. Also, at line 3, delete "of the elastomer".

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In claims 10 and 11, line 1 of each claim, please change "blend" to --the elastomer--.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicants' admitted prior in view of Palomo et al. (US 5938874).

It is noted that Applicants appear to have admitted that it is known art that a microporous sheet can be made of polyolefins, such as polypropylene and polyethylene (Specification, page 3, first paragraph).

For claims 9-11, the admitted prior art lacks an express teaching that the mechanical property of the polyolefin membrane can be improved by using a blend of polyolefin and an elastomer. However, it is noted that Palomo's invention is related to a microporous film. In one embodiment, Palomo expressly teaches that a flexible and resilient microporous film comprises polyethylenes, polypropylenes, thermoplastic elastomers, etc., or blends of these polymers (column 4, lines 29-34). Further, it is believed that thermoplastic elastomers inherently encompass the commonly known ethylene-propylene rubber (EPR) and ethylene-propylene-diene terpolymer rubber (EPDM). As such, it would have been obvious to one of ordinary skill in the art to

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modify the admitted microporous film with a suitable blend of polyolefin and thermoplastic elastomer such as EPR and EPDM, motivated by the desire to improve the flexibility and resiliency of the film. Regarding the amount of elastomer used in the blend, it is also believed to be either inherently disclosed by Palomo, or an obvious optimization to one skilled in the art, motivated by the desire to obtain optimal required film flexibility and resiliency.

Claims 1-3 and 6-8 essentially mirror the product claims 9-11 and employ only a conventional method step, i.e., providing, and as such are rejected.

For claim 4 and 5, since the scope of the inventions, i.e., microporous membranes, taught by the prior art and Palomo are essentially the same as the instant claimed invention, it is believed that a suitable air permeability is also an obvious optimization to one skilled in the art, motivated by the desire to retain the proper membrane functionalities such as breathability and liquid barrier property, etc.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor S Chang whose telephone number is 703-605-4296. The examiner can normally be reached on 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel H Morris can be reached on 703-308-2414. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

VSC June 23, 2003

DANIEL ZIRKER PRIMARY EXAMINER GROUP 1300 1700

Daniel Zinken